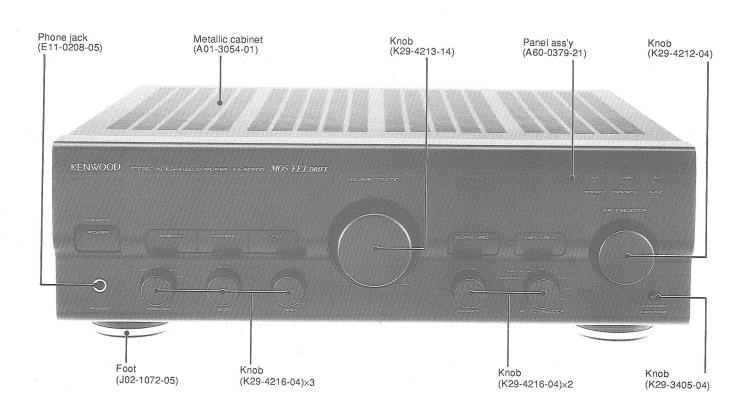
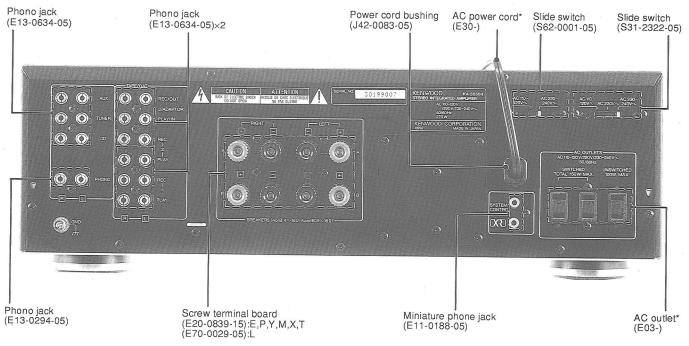
STEREO INTEGRATED AMPLIFIER

KA-5050R SERVICE MANUAL

KENWOOD

© 1993-3 PRINTED IN JAPAN B51-4708-00 (S) 2804





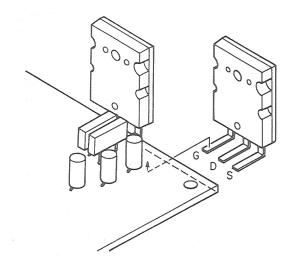
* Refer to parts list on page 23.

CONTENTS

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ADJUSTMENT/REGLAGES/ABGLEICH4	PARTS LIST	23
WIRING DIAGRAM5		

NOTES

- Handle the power MOS-FETs carefully. They are easily destroyed by static electricity.
- When soldering, use a high-insulation soldering iron.
- When soldering, solder the gate (G) first.



- When replacing the power MOS-FET, there are differences according to the ranks, so please replace Pch (or Nch) as a pair of identical rank.
- The parts stock for parts of the same rank as Pch (or Nch) come in packs of pairs.
 When ordering a quantity of 1, one pack (containing 2) will be delivered in one bag.
 Please order as 2SK1529LBP4, 2SJ200LBP4.

There is no need to adjust the ranks of Pch and Nch, and there is no need to adjust the ranks of the left channel and right channel either.

 Since the KA-5050R is a FET amp, even with no signal, nearly as much heat is generated as for maximum output.

When piling sets on top of each other, put this amp at the top. Placing any other unit on top of this amp interferes with the heat release and can cause harm, so do not do this.

ACCESSORIES

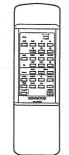
INSTRUCTION MANUAL

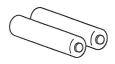
B60-1131-00 ENGLISH B60-1132-00 FRENCH E, L, P B60-1133-00 CHINESE M B60-1134-00 SPANISH E, M B60-1135-00 GE, DU, IT E, L Accessories

Remote control unit 1

(A70-0932-05) (A09-0146-08): Battery cover Batteries (R6/SUM-3/*AA*)

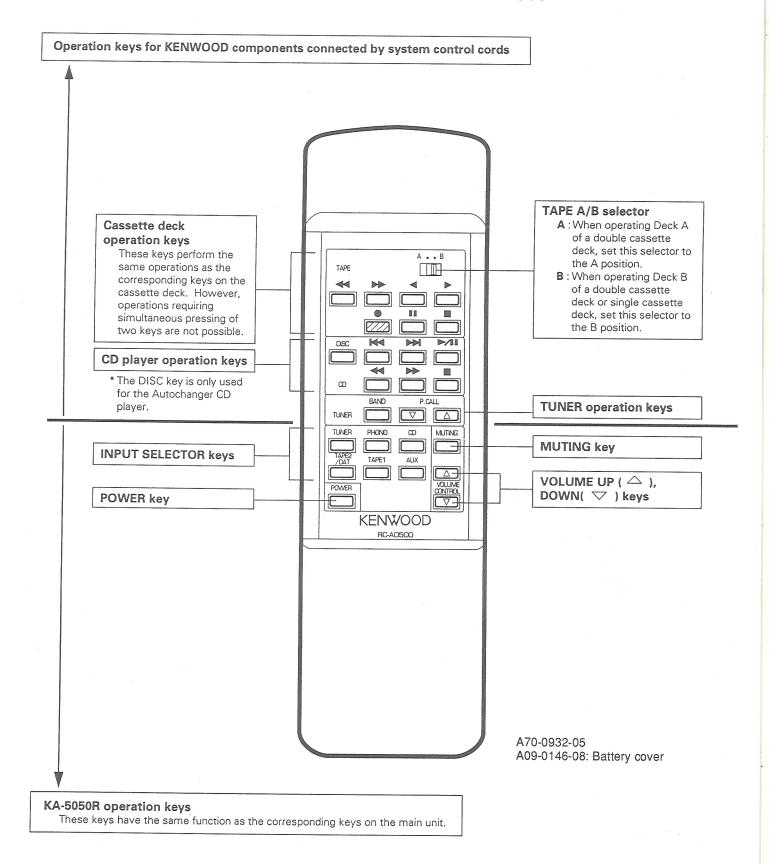
(E03-0115-05)







REMOTE CONTROL OPERATION



ADJUSTMENT/REGLAGE/ABGLEICH

ADJUSTMENT

No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	AMPLIFIER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
	Unless otherwise POWER: ON		ective switches as follows REC OUT: OFF SELEC				
1	IDLE CURRENT	_	Connect a DC voltmeter across CN3 Pin 1-2 CN3 Pin 3-4 CN4 Pin 1-2 CN4 Pin 3-4	VOLUME: 0	VR1,3 (L) VR2,4 (R)	10 mV	(a)

REGLAGES

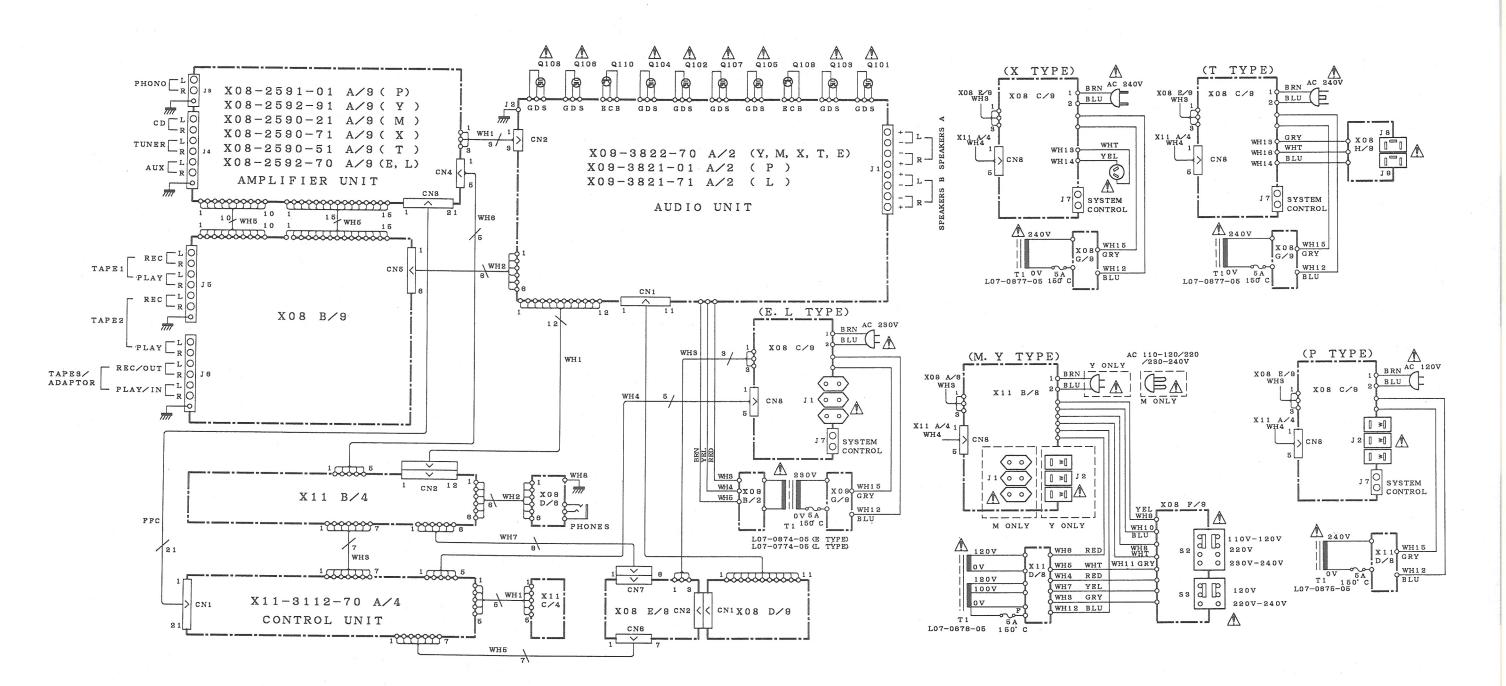
. N°	ITEM	REGLAGE DE L'ENTREE	REGLAGE DE LA SORTIE	REGLAGE DE L'AMPLIFICATEUR	POINT DE L'ALIGNEMENT	ALIGNER POUR	FIG.
	Sauf indicationcor POWER: ON SI		suit les commandes respe OUT: OFF SELECTO				
1	COURANT DE PLARISATION	_	Connecter un voltmètre de CC SUR CN3 Pin 1-2 CN3 Pin 3-4 CN4 Pin 1-2 CN4 Pin 3-4	VOLUME: 0	VR1,3 (G) VR2,4 (D)	10 mV	(a)

ABGLEICH

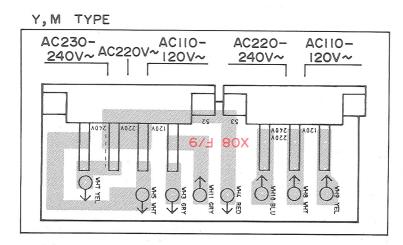
NR.	GEGENSTAND	EINGANGS- EINSTELLUNG	AUSGANGS- EINSTELLUNG	VORSTÄRKER- EINSTELLUNG	ABGLEICH- PUNKTE	ABGLEICHEN FUR	ABB.
	Wenn nicht anders POWER: ON SI		elnen Schalter wie folgt ei OUT: OFF SELECTER			a 60	
1	LEERLAUFSTROM	_	Einen Gleichspannungs- messer Uber CN3 Pin 1-2 CN3 Pin 3-4 CN4 Pin 1-2 CN4 Pin 3-4 anschließen.	VOLUME: 0	VR1, 3(L) VR2, 4(R)	10 mV	(a)

KA-5050R KA-5050R

WIRING DIAGRAM

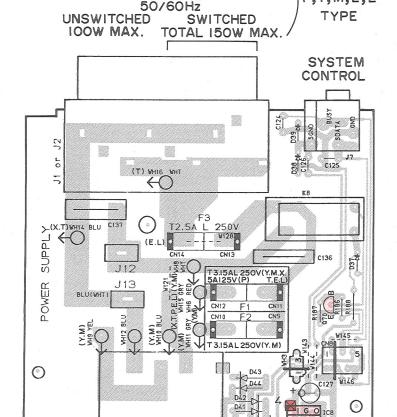


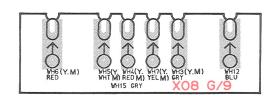
PC BOARD (Component side view)



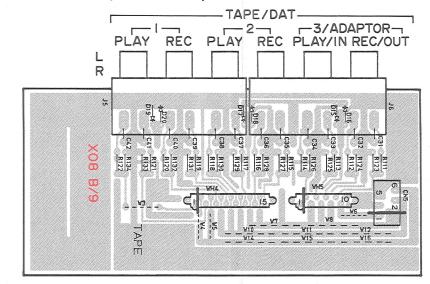
P, Y, M, E, L

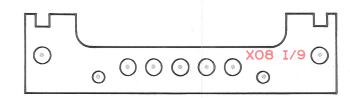
AC OUTLETS ACIIO-120V/220V/230-240V~



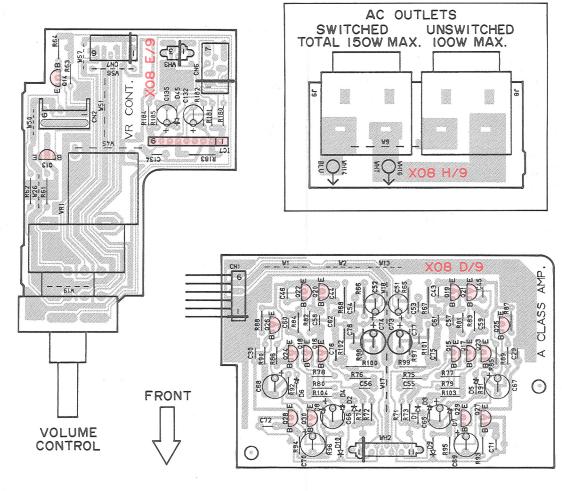


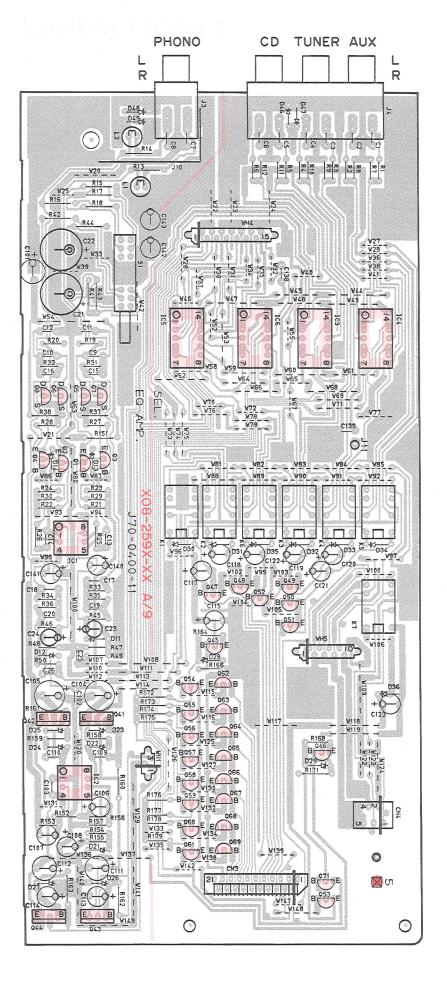
PREAMPLIFIER UNIT (X08-259X-XX)

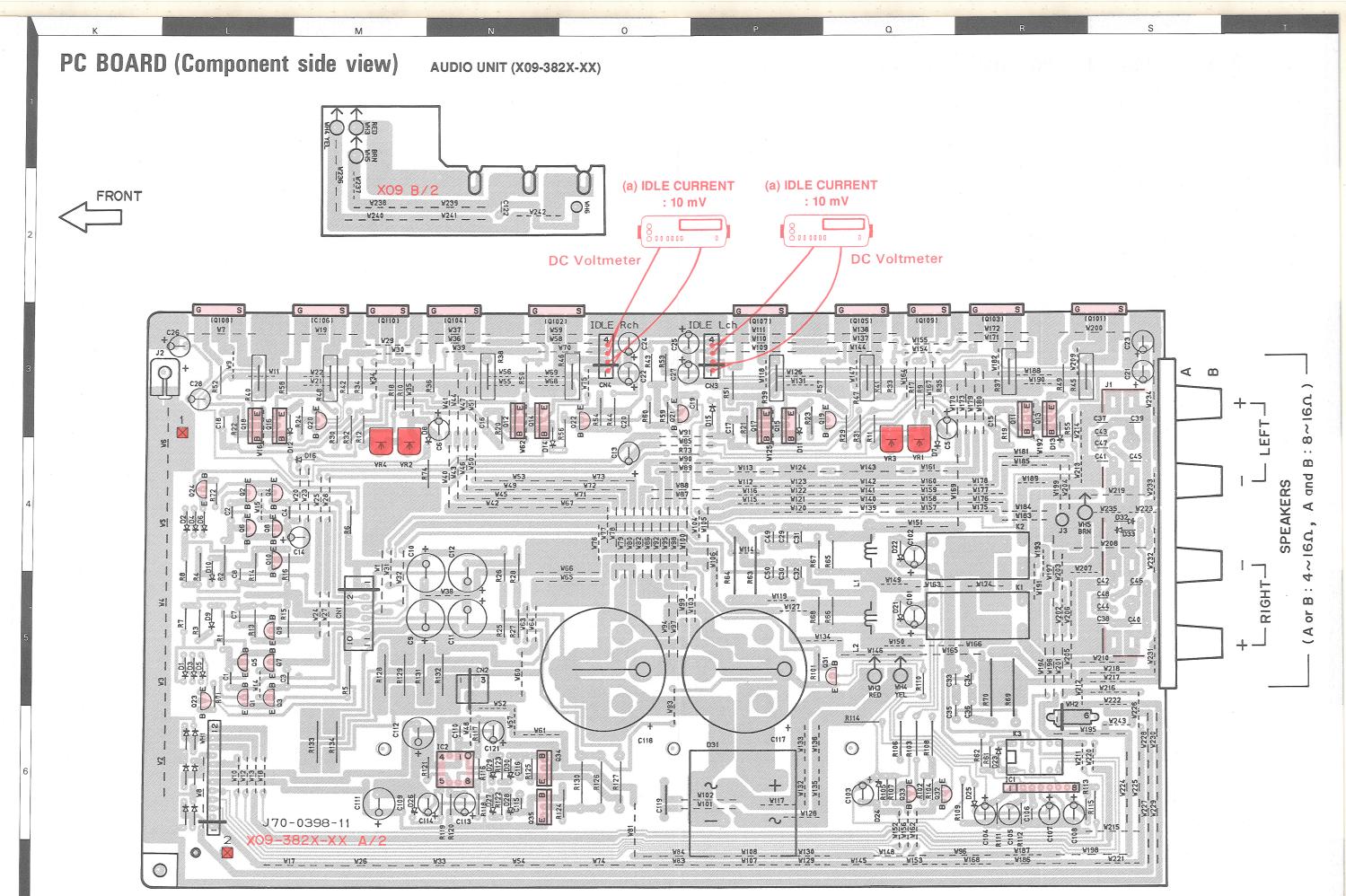




T TYPE ONLY

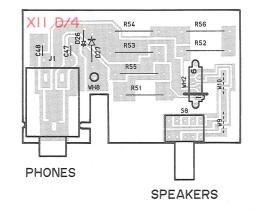


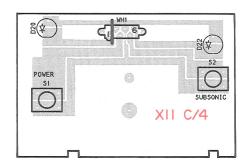


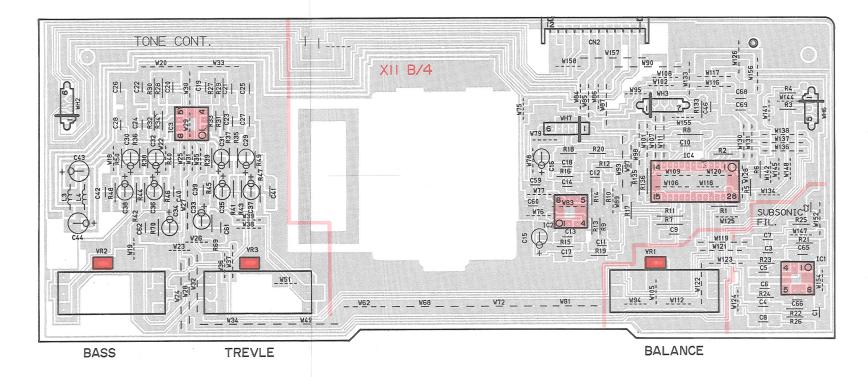


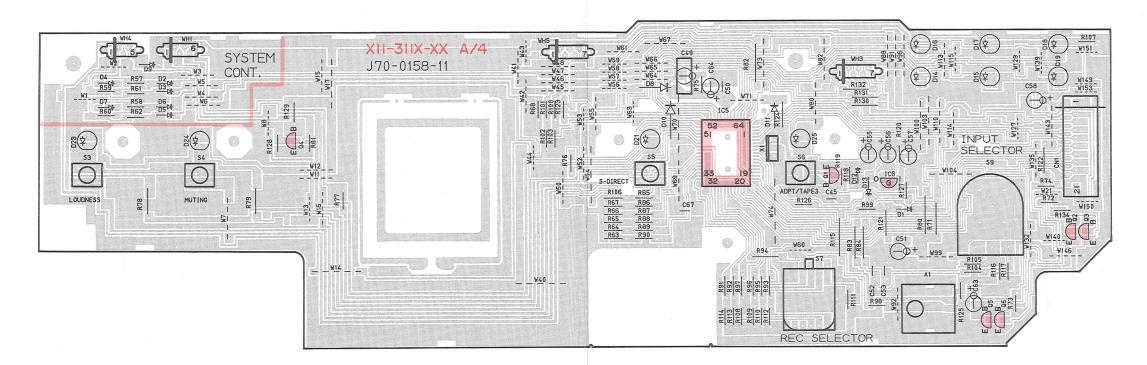
PC BOARD (Component side view)

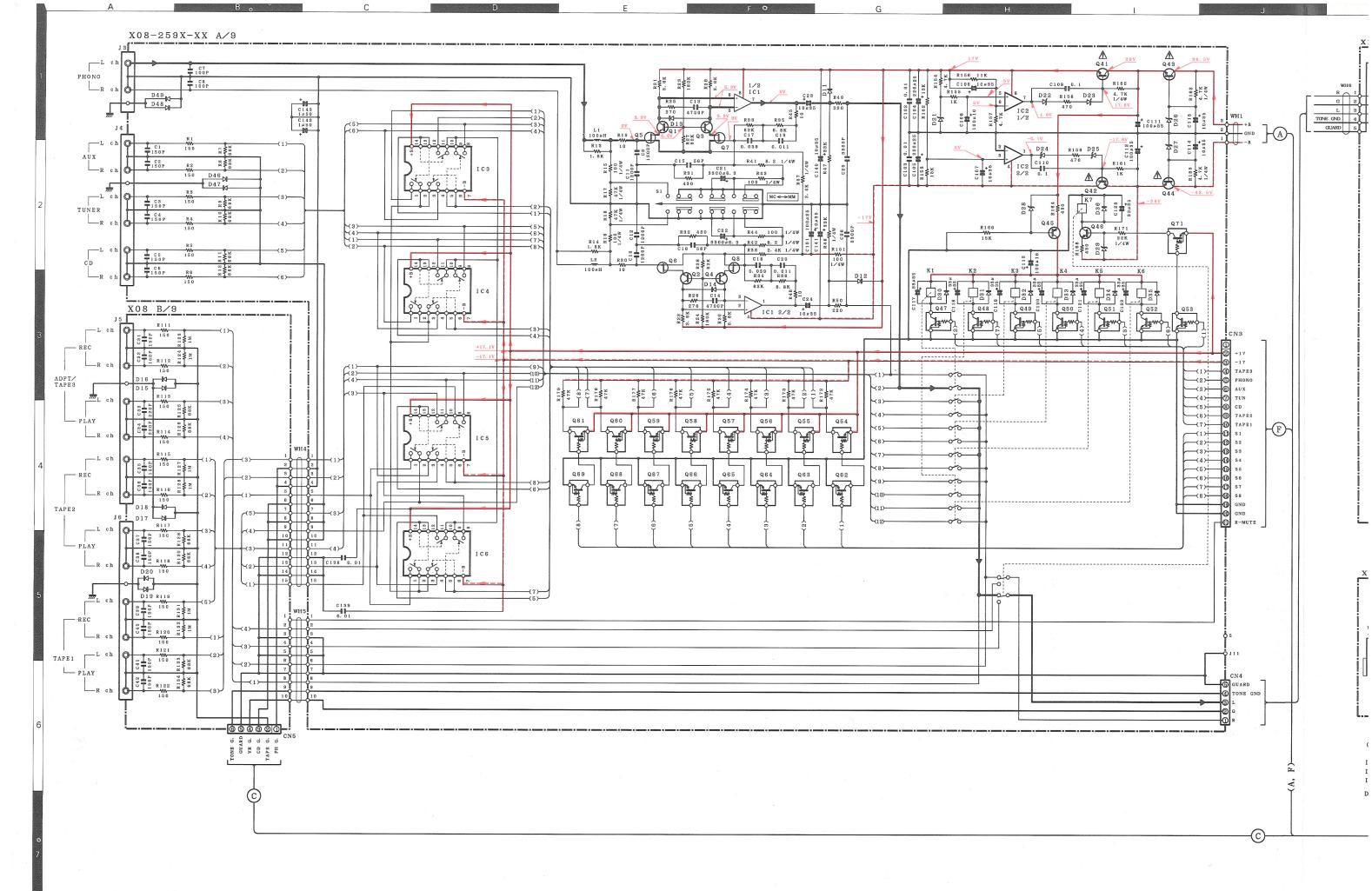
CONTROL UNIT (X11-3112-70)

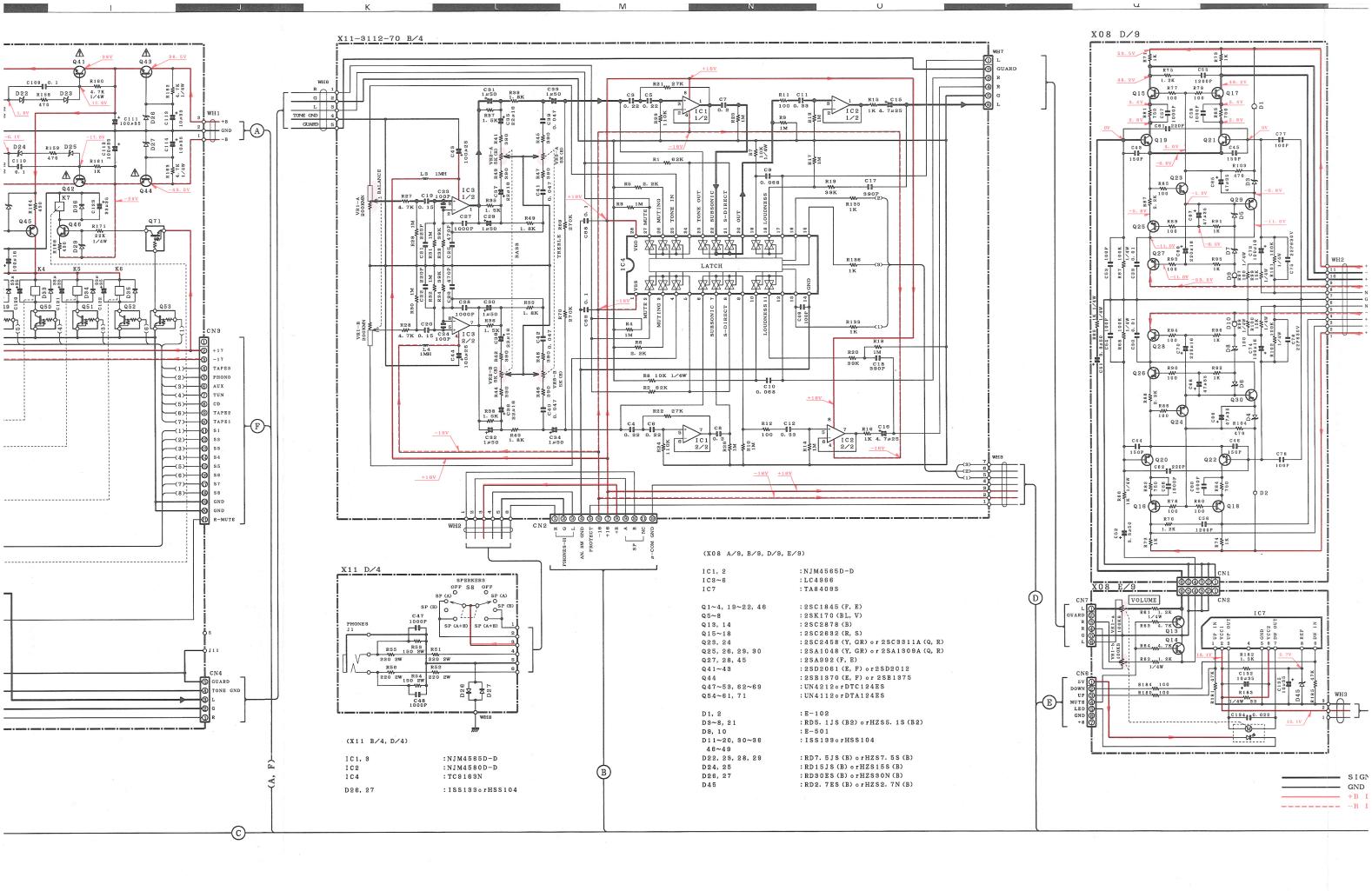


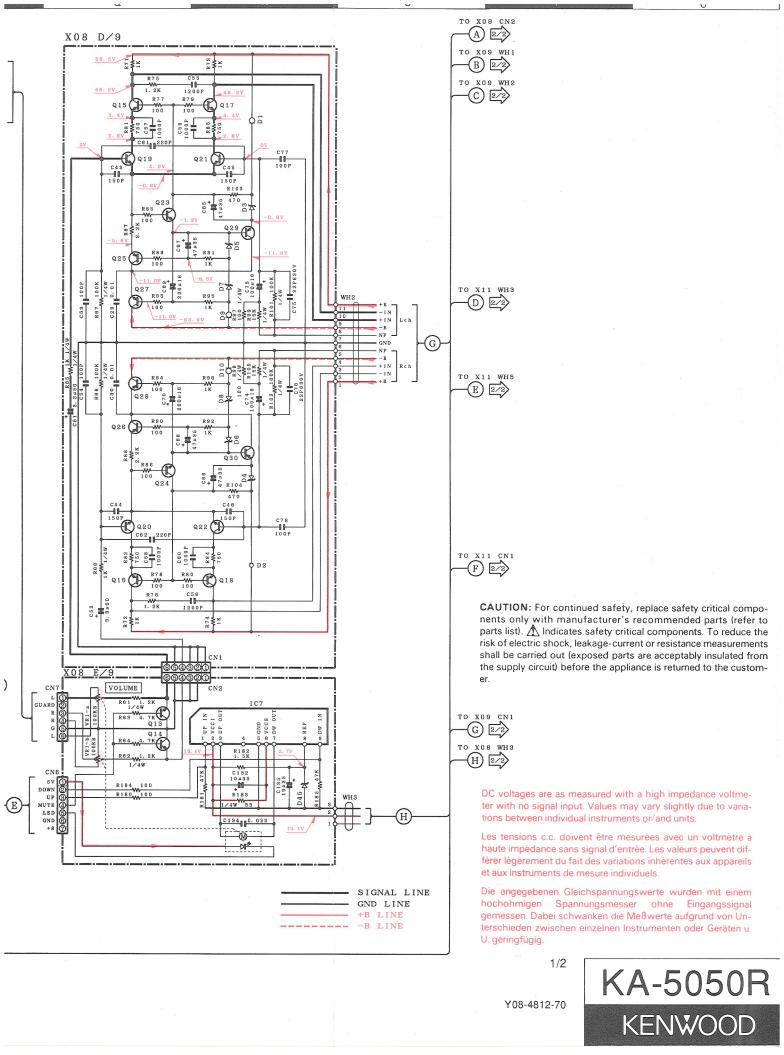


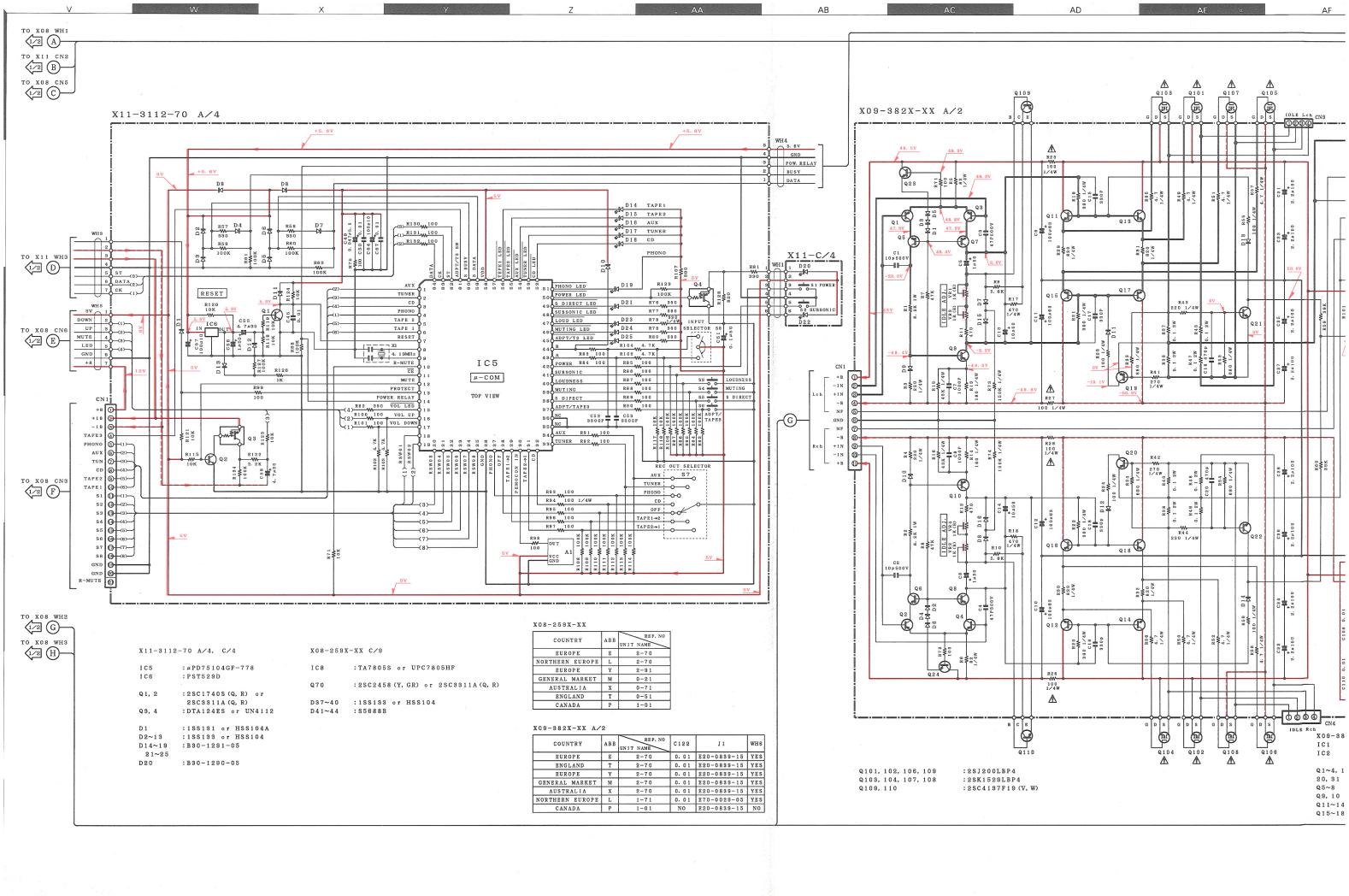


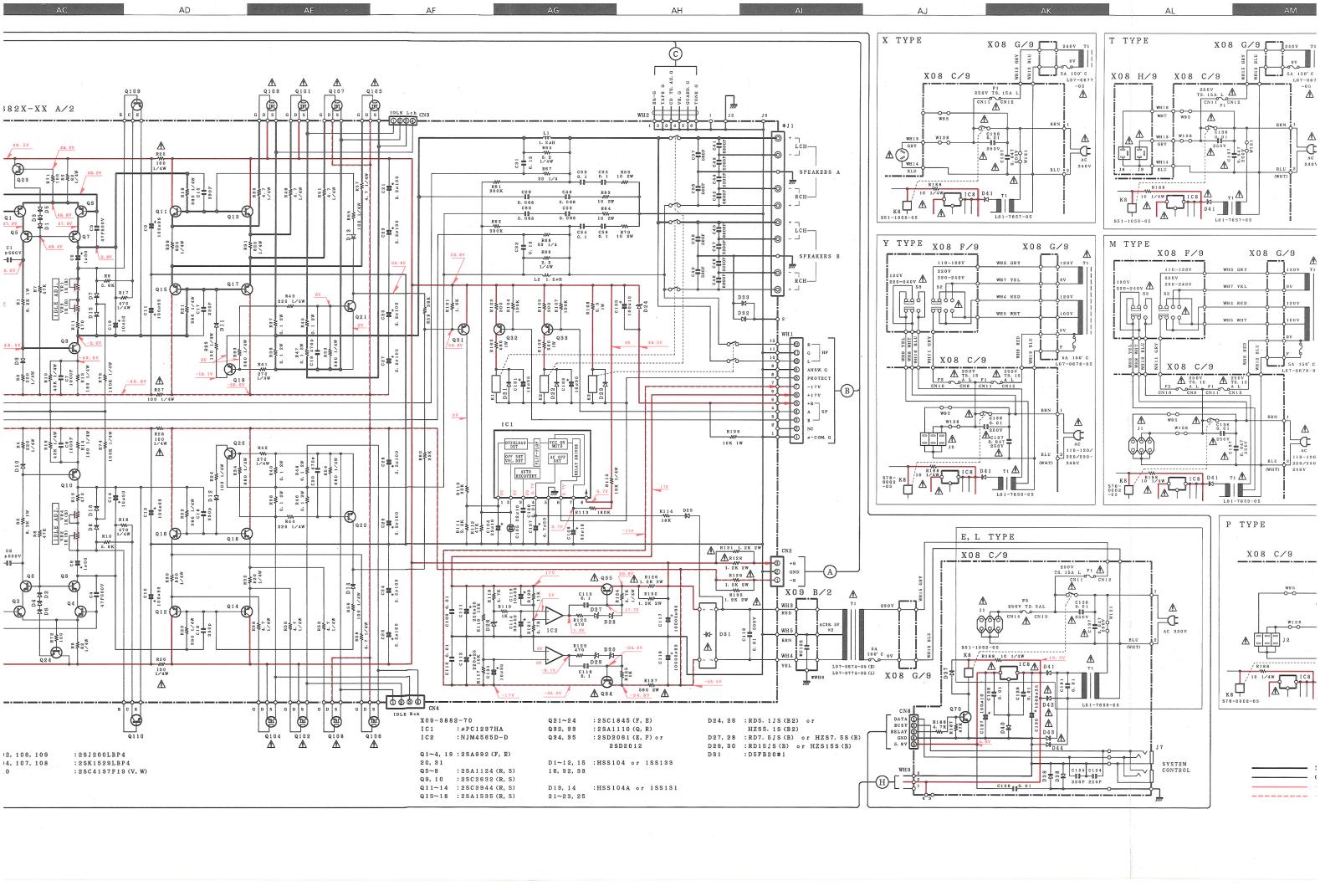


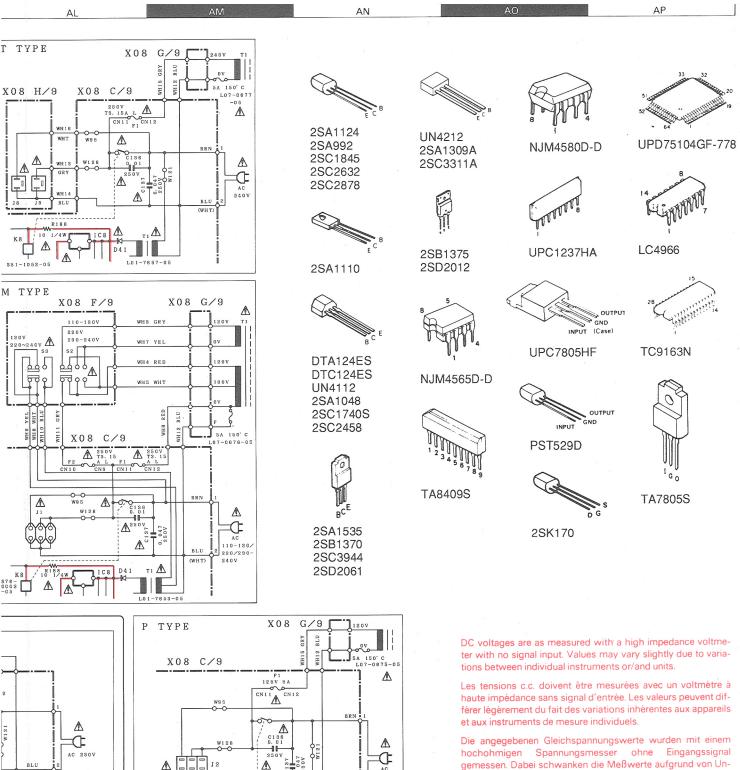


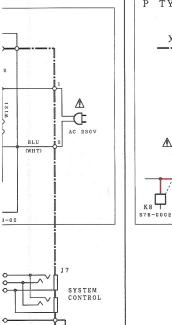


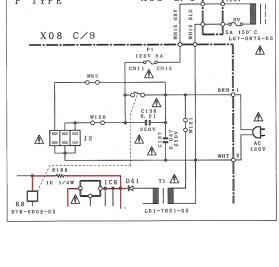












SIGNAL LINE GND LINE +B LINE -B LINE

terschieden zwischen einzelnen Instrumenten oder Geräten u. U. geringfügig.

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). A Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the custom-

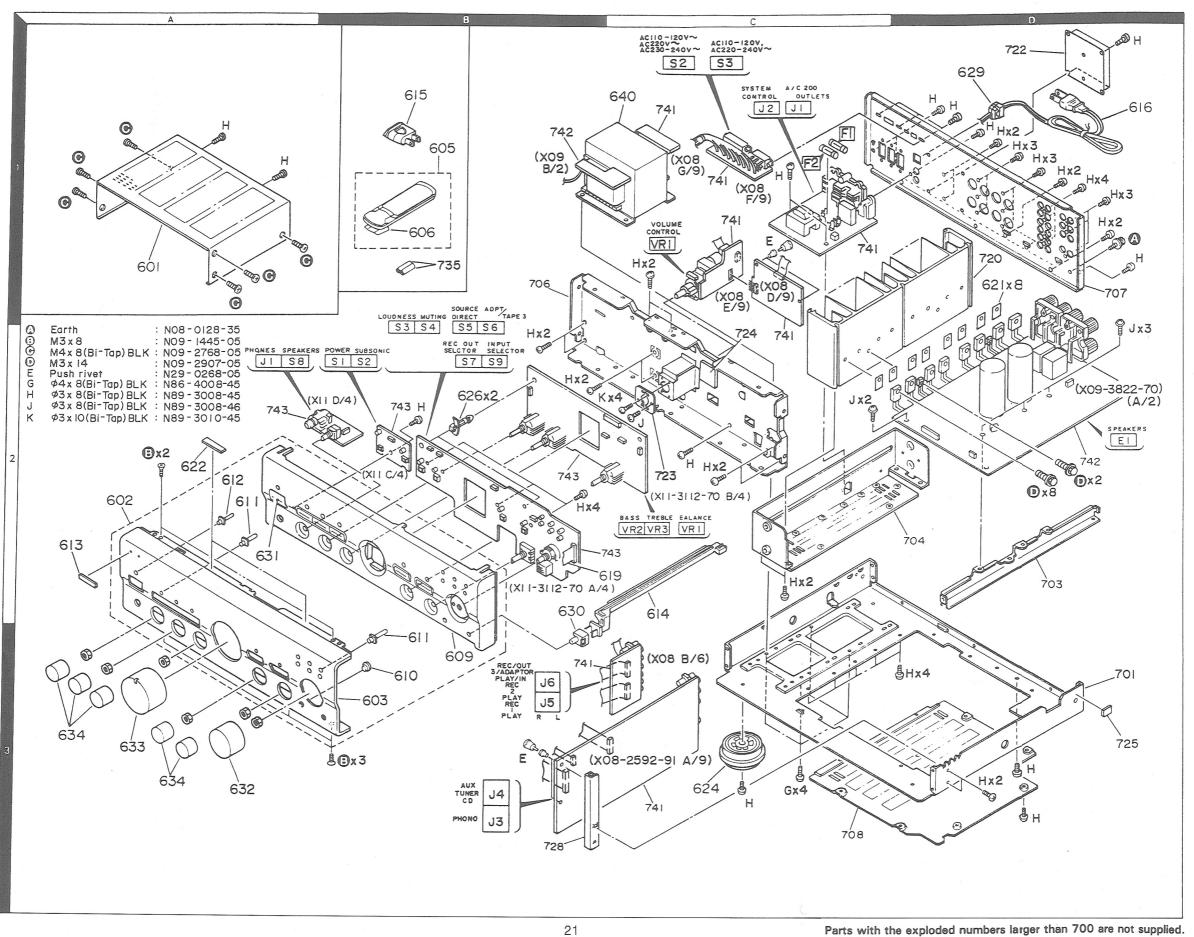
2/2

Y08-4812-70



KA-5050R KA-5050R

EXPLODED VIEW



22

KA-5050R KA-5050R

× New Parts

PARTS LIST

Parts without Parts No. are not supplied.

Les articles non mentionnes dans le Parts No. ne sont pas fournis.

Teile ohne Parts No. werden nicht geliefert.

	Ref.	No.	Add	ress		Р	arts	No.		De	scr	ipti	on		Desti-	Re-
	参照	番号	位	置	Parts 新	部	品	番号	部	밂	名	/	規	格	nation 仕 向	marks 備考
								KA-	5050R							
	601 602 603 605 606		1 A 2 A 3 B 1 B 1 B		* * * *	A01-30 A60-03 A60-03 A70-00 A09-03	379 380 932	-21 -02 -05	METALLIC C PANEL ASSY PANEL REMOTE CON BATTERY CO	, ITRO	LLE		ASS	ΥΥ		
	609 610 611 612 613		3B 2B 2A, 2A	3B		B01-02 B11-02 B12-03 B12-03 B43-03	237 163 232	-14 -04 -04	PANEL ESCU COLOR FILT INDICATOR INDICATOR KENWOOD BA	ER.		N				
	-, - - -					B46-00 B46-00 B46-00 B46-00 B46-00	095 096 121	-03 -33 -23	WARRANTY C WARRANTY C WARRANTY C WARRANTY C WARRANTY C	ARD ARD))				Y Y X P EL	
	-				* * *	B46-0 B58-0 B60-1 B60-1 B60-1	513 131 132	-04 -00 -00	WARRANTY C CAUTION CA INSTRUCTION INSTRUCTION INSTRUCTION	ARD ON M	IANI JANI	JAL JAL	(T220-240) ENGLISH) FRENCH) CHINESE)	T Y ELP M	
	- -				* * .	B60-1: B60-1:			INSTRUCTION INSTRUCTION					SPANISH) GE, DU, IT)	EM EL	
	614		2C			D21-1	558	-03	EXTENSION	SHA	FT					
<u>↑</u> <u>↑</u> <u>↑</u> <u>↑</u>	615 616 616 616 616		1B 1D 1D 1D			E03-04 E30-04 E30-09 E30-09	459 312 974	-05 -05 -05	AC PLUG AD AC POWER C AC POWER C AC POWER C AC POWER C	ORD ORD)))				M ELM Y P	
A A	616 619 -		1 D 2 C			E30-27 E35-07 E03-01	148	-05	AC POWER C FLAT CABLE AC OUTLET)				T X	
	621		1 D			F20-13	322	-05	INSULATING	B @	ARI)				
	622		2A		*	G10-01	85	-04	NON-WOVEN	FAB	RIC					
	- - -				* * *	H50-06 H50-06 H10-51 H10-55 H10-55	29 166 167	-04 -12 -02	ITEM CARTO ITEM CARTO POLYSTYREN POLYSTYREN POLYSTYREN	N C IE F IE F	ASE OAN	E MED MED	FI	XTURE (R)	ELPYMX T ELPYMX ELPYMX T	
	- - -				*	H10-55 H25-02 H25-02 H25-06 H25-06	225 232 551	-04 -04 -04	POLYSTYREN PROTECTION PROTECTION PROTECTION PROTECTION	BA BA	G (G (G ((85 (23 (02	0X4 5X3 32	50X0.03) 50X0.03) PRINTED)	T ELPYMX ELPYMX T T	
A	624 626 629		3C 2B 1D			J02-10 J19-33 J42-00 J61-03	328 383	-15 -05	FOOT UNIT HOLDE POWER CORD WIRE BAND		JSH]	I NG				
	630 631 632		2B 2A 3A			K29-34 K29-42 K29-42	210	-03	KNOB CARTR KNOB POWER KNOB INPUT	2				;)		

L:Scandinavia K:USA P:Canada Y:PX(Far East, Hawaii) T:England E:Europe Y:AAFES(Europe) X:Australia M:Other Areas

ndicates safety critical components.

PARTS LIST

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	Ref. N	lo.	Addr	ess		Parts	No.	De	scription			Re-
	参照番	두 号	位	置	Parts 新	部品	番号	部品	名/規	格		marks 備考
	633 634		3A 3A		*	K29-4213 K29-4216		KNOB VOLUME KNOB SP, TONE,	BAL,REC (OUT SEL		
<u>^</u>	640 640 640 640		1C 1C 1C 1C		* * * *	L07-0674 L07-0675 L07-0676 L07-0677 L07-0774	-05 -05 -05	POWER TRANSFO POWER TRANSFO POWER TRANSFO POWER TRANSFO POWER TRANSFO	ORMER ORMER ORMER		E P YM XT L	
	A B C D E		1D 2A,3 1A 2D 3B,1		8	N08-0128 N09-1445 N09-2768 N09-2907 N29-0268	-05 -05 -05	BINDING POST SET SCREW SEMS (TAPTITE SEMS (TAPTITE PUSH RIVET		4X8)		
	G H J K		1D,3 2C,2 2C 3C			N86-4008 N89-3008 N89-3008 N89-3010	-45 -46	BINDING HEAD BINDING HEAD BINDING HEAD BINDING HEAD	TAPTITE :	SCREW SCREW		
						PREAM	PLIFIER I	UNIT (X08-259)	(-XX)			
	C1 -6 C7 ,8 C9 -12 C13 ,14 C15 ,16	2				CF92FV1H CF92FV1H CF92FV1H CF92FV1H CC45FSL1	101K 122J 472J	MF MF MF CERAMIC	150PF 100PF 1200PF 4700PF 56PF	K K J J		
	C17 ,18 C19 ,20 C21 ,22 C23 ,24 C25 ,26	0 2 4				CF92FV1H CF92FV1H C90-1951 CE04KW1V CF92FV1H	113J -05 100M	MF MF ELECTRO ELECTRO MF	0.039UF 0.011UF 3300UF 10UF 3300PF	J J 6.3WV 35WV J		
	C29 ,30 C31 ,32 C33 ,34 C35 -46 C51 ,52	2 4 6				CF92FV1H CF92FV1H CF92FV1H CF92FV1H CE04KW1H	151K 221K 151K	MF MF MF ELECTRO	0.010UF 150PF 220PF 150PF 3.3UF	J K K K 50WV		
	C53 ,54 C55 ,56 C57 -60 C61 ,62 C65 -68	6 0 2				CF92FV1H CF92FV1H CF92FV1H CF92FV1H CE04KW1V	122J 102J 221K	MF MF MF ELECTRO	100PF 1200PF 1000PF 220PF 47UF	K J J K 35WV		
	C69 ,70 C73 ,74 C75 ,76 C77 ,78 C101	4 6				CE04KW1C C90-1917 C91-1466 CF92FV1H CE04KW1E	-05 -05 1101K	ELECTRO ELECTRO FILM MF ELECTRO	220UF 100UF 22PF 100PF 100UF	16WV 16WV K K 25WV		
	C102,10 C104,10 C106,10 C108 C109,1	05 07				CF92FV1H CE04KW1E CE04KW1V CE04KW1A	221M 100M 101M	MF ELECTRO ELECTRO ELECTRO MF	0.010UF 220UF 10UF 100UF 0.10UF	J 25WV 35WV 10WV J		
	C111,1 C113,1 C115 C117-1 C124,1	14 23				CEO4KW1V CEO4KW1V CEO4KW1V CEO4KW1V	7100M 3101M 7330M	ELECTRO ELECTRO ELECTRO ELECTRO CERAMIC	100UF 10UF 100UF 33UF 220PF	35WV 35WV 16WV 35WV J		
	C126 C127					CK45FF1F CE04KW1A		CERAMIC ELECTRO	0.010UF 100UF	Z 10WV		

L:Scandinavia Y:PX(Far East, Hawaii) Y:AAFES(Europe)

K:USA T:England E:Europe X:Australia M:Other Areas

P:Canada

24

PARTS LIST

× New Parts

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	Ref. No.	Address	New		Description	Desti-Re-
	参照番号	位 置	新	部品番号	部品名/規格	nation marks 仕 向 備考
	C128,129 C130 C131 C132 C134			CF92FV1H103J CE04KW1E102M CF92FV1H103J CE04KW1V100M CF92FV1H223J	MF 0.010UF J ELECTRØ 1000UF 25WV MF 0.010UF J ELECTRØ 10UF 35WV MF 0.022UF J	
A	C135 C136 C137 C138,139 C140,141			CE04KW1V100M C91-1439-05 C91-1444-05 CF92FV1H103J CE04KW1V100M	ELECTR® 10UF 35WV FILM 0.01UF 250VAC MF 0.047UF 250VAC MF 0.010UF J ELECTR® 10UF 35WV	
	C142,143			CE04KW1H010M	ELECTRO 1.0UF 50WV	
<u>^</u>	J1 J2 J3 J4 -6 J7		*	E03-0143-05 E03-0142-05 E13-0294-05 E13-0634-05 E11-0188-05	AC OUTLET AC OUTLET PHONO JACK (1P) PHONO JACK (3P) MINIATURE PHONE JACK	ELM PY
Δ	J8 ,9			E03-0109-05	AC QUTLET	T
<u>A</u> <u>A</u> <u>A</u>	F1 F1 F1 ,2 F3			F04-5022-05 F05-3121-05 F05-3121-05 F05-2525-05	FUSE (UL) (125V 5A UL) FUSE (SEMKO) (250V T3.15A) FUSE (SEMKO) (250V T3.15A) FUSE (SEMKO) (250V T2.5A)	P ELXT YM EL
	- CN9 -12 CN11-14 CN11,12			J11-0098-05 J13-0075-05 J13-0075-05 J13-0075-05	WIRE CLAMPER FUSE CLIP FUSE CLIP FUSE CLIP	YM EL PXT
<u>^</u> <u>^</u> <u>^</u>	L1 ,2 T1 T1 T1			L40-1011-47 L01-7651-05 L01-7653-05 L01-7657-05	SMALL FIXED INDUCTOR(100UH,K) POWER TRANSFORMER POWER TRANSFORMER POWER TRANSFORMER	P ELYM XT
	R33 ,34 R35 ,36 R99 ,100 R101,102 R151			RN14BK2C8202FTS RN14BK2C6801FTS RN14BK2E1502FTS RN14BK2E1003FTS RD14AB2E101JTS	RN 82.0K F 1/6W RN 6.80K F 1/6W RN 15.0K F 1/4W RN 100K F 1/4W FL-PROOF RD 100 J 1/4W	
	R160 R162,163 R183 R188 VR1			RD14AB2E472JTS RD14AB2E472JTS RD14AB2E330JTS RD14AB2E100JTS RD14AB2E100JTS R29-5059-05	FL-PR00F RD 4.7K J 1/4W FL-PR00F RD 4.7K J 1/4W FL-PR00F RD 33 J 1/4W FL-PR00F RD 10 J 1/4W P0TENTIOMETER	
A	K1 -7 K8 K8 S1 S2			S76-0027-05 S51-1052-05 S76-0002-05 S40-6036-05 S31-2322-05	MAGNETIC RELAY MAGNETIC RELAY MAGNETIC RELAY PUSH SWITCH SLIDE SWITCH	ELXT PYM
\triangle	S3			S62-0001-05	SLIDE SWITCH	YM
	D1 ,2 D3 -8 D3 -8 D9 ,10 D11 -20	3 S		E-102 HZS5.1S(B2) RD5.1JS(B2) E-501 HSS104	CONSTANT CURRENT DIODE ZENER DIODE ZENER DIODE CONSTANT CURRENT DIODE DIODE	
	D11 -20 D21			1SS133 HZS5.1S(B2)	DIODE ZENER DIODE	

L:Scandinavia

K:USA

P:Canada

Y:PX(Far East, Hawaii)

T:England E:Europe

Y:AAFES(Europe)

X:Australia M:Other Areas

PARTS LIST

× New Parts

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Ref. No.	Address	New	Parts No.	Description Desti- Re-
参照番号	位 置	Parts 新	部品番号	nation mark 部品名/規格 仕 向 備考
D21 D22 ,23 D22 ,23 D24 ,25 D24 ,25			RD5.1JS(B2) HZS7.5S(B) RD7.5JS(B) HZS15S(B) RD15JS(B)	ZENER DIODE ZENER DIODE ZENER DIODE ZENER DIODE ZENER DIODE ZENER DIODE
D26 ,27 D26 ,27 D28 ,29 D28 ,29 D30 -40			HZS30N(B) RD30ES(B) HZS7.5S(B) RD7.5JS(B) HSS104	ZENER DIODE ZENER DIODE ZENER DIODE ZENER DIODE DIODE
D30 -40 D41 -44 D45 D45 D46 -49			1SS133 S5688B HZS2.7N(B) RD2.7ES(B) HSS104	DIODE DIODE ZENER DIODE ZENER DIODE DIODE
D46 -49 IC1 ,2 IC3 -6 IC7 IC8			1SS133 NJM4565D-D LC4966 TA8409S TA7805S	DIODE IC(OP AMP X2) IC(CMOS LOGIC BILATERAL SW) IC(MOTOR CONTROL) IC(VOLTAGE REGULATOR/ +5V)
IC8 Q1 -4 Q5 -8 Q5 -8 Q13 ,14			UPC7805HF 2SC1845(F,E) 2SK170(BL) 2SK170(V) 2SC2878(B)	IC(VOLTAGE REGULATOR/ +5V) TRANSISTOR FET FET TRANSISTOR
Q15 -18 Q19 -22 Q23 ,24 Q23 ,24 Q25 ,26			2SC2632(R,S) 2SC1845(F,E) 2SC2458(Y,GR) 2SC3311A(Q,R) 2SA1048(Y,GR)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR
Q25 ,26 Q27 ,28 Q29 ,30 Q29 ,30 Q41 -43	,		2SA1309A(Q,R) 2SA992(F,E) 2SA1048(Y,GR) 2SA1309A(Q,R) 2SD2012	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR
Q41 -43 Q44 Q44 Q45 Q46		*	2SD2061(E,F) 2SB1370(E,F) 2SB1375 2SA992(F,E) 2SC1845(F,E)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR
Q47 -53 Q47 -53 Q54 -61 Q54 -61 Q62 -69			DTC124ES UN4212 DTA124ES UN4112 DTC124ES	DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR
Q62 -69 Q70 Q70 Q71 Q71			UN4212 2SC2458(Y,GR) 2SC3311A(Q,R) DTA124ES UN4112	DIGITAL TRANSISTOR TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR
C1 ,2				(X09-382X-XX)
C1 ,2 C3 ,4 C5 ,6 C7 ,8		*	CC45FSL2H100D CC45FSL2H470J CE04KW1H1R0M CF92FV1H102J	CERAMIC 10PF D CERAMIC 47PF J ELECTRO 1.0UF 50WV MF 1000PF J

L:Scandinavia

K:USA

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Y:PX(Far East, Hawaii)

T:England

E:Europe

Y:AAFES(Europe)

X:Australia

PARTS LIST

× New Parts

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Ref. No.	Address			Descriptio	n		Re-
参照番号	位 置	Parts 新	部品番号	部品名/敖	見格		marks 備考
C9 -12 C13 ,14 C15 -18 C19 ,20 C21 -28			CE04DW1J101M CE04KW1H100M CF92FV1H331K CF92FV1H471J CE04KW2A2R2M	ELECTRO 100UF ELECTRO 10UF MF 330PF MF 470PF ELECTRO 2.2UF	63WV 50WV K J 100WV		
C29 ,30 C31 ,32 C33 -36 C37 -40 C41 ,42			CF92FV1H683J CF92FV1H124J CF92FV1H104J CF92FV1H561J CF92FV1H682J	MF 0.068U MF 0.12UF MF 0.10UF MF 560PF MF 6800PF	J J J		
C43 ,44 C45 ,46 C47 ,48 C49 ,50 C101,102			CK45FB1H222K CF92FV1H682J CK45FB1H222K CF92FV1H683J CE04KW1V100M	CERAMIC 2200PF MF 6800PF CERAMIC 2200PF MF 0.068U ELECTR® 10UF	J K		
C103 C104 C105 C106 C107			CE04KW1A101M CE04KW1C220M CE04HW1A220M CF92FV1H103J CE04KW1H4R7M	ELECTR® 100UF ELECTR® 22UF NP-ELEC 22UF MF 0.010U ELECTR® 4.7UF	10WV 16WV 10WV F J 50WV		
C108 C109,110 C111,112 C113 C114			CE04KW1C330M CF92FV1H103J CE04KW1E221M CE04KW1V100M CE04KW1H330M	ELECTRØ 33UF MF 0.010U ELECTRØ 220UF ELECTRØ 10UF ELECTRØ 33UF	16WV F J 25WV 35WV 50WV		
C115,116 C117,118 C119 C121 C122		*	CF92FV1H104J C90-3500-05 CK45FE2H103P CE04KW1V100M CF92FV1H103J	MF 0.10UF ELECTR® 10000U CERAMIC 0.010U ELECTR® 10UF MF 0.010U	F 63WV F P 35WV	ELYMXT	
J1 J1			E20-0839-15 E70-0029-05	SCREW TERMINAL BOAR SCREW TERMINAL BOAR		EPYMXT L	
-			J11-0098-05	WIRE CLAMPER			
L1 ,2			L39-1318-05	PHASE COMPENSATION	COIL		
R1 ,2 R3 ,4 R5 ,6 R13 ,14 R19 -22			RS14DB3A822JTE RD14AB2E221JTS RD14AB2E820JTS RD14AB2E181JTS RD14AB2E391JTS	FL-PR00F RS 8.2K FL-PR00F RD 220 FL-PR00F RD 82 FL-PR00F RD 180 FL-PR00F RD 390	J 1W J 1/4W J 1/4W J 1/4W J 1/4W		
R23 -28 R29 -32 R33 ,34 R35 ,36 R37 -40			RD14AB2E101JTS RD14AB2E821JTS RD14AB2E681JTS RD14AB2E4R7JTS R92-0205-05	FL-PROOF RD 100 FL-PROOF RD 820 FL-PROOF RD 680 FL-PROOF RD 4.7 METAL-PLATE 0.1	J 1/4W J 1/4W J 1/4W J 1/4W K 2W		
R41 ,42 R43 ,44 R45 -48 R49 -52 R53 ,54		ė.	RD14AB2E271JTS RD14AB2E221JTS R92-0205-05 RD14AB2E4R7JTS RD14AB2E681JTS	FL-PROOF RD 270 FL-PROOF RD 220 METAL-PLATE 0.1 FL-PROOF RD 4.7 FL-PROOF RD 680	J 1/4W J 1/4W K 2W J 1/4W J 1/4W	,	
R55 ,56 R57 ,58 R63 ,64 R65 ,66		*	RD14AB2E101JTS RD14AB2E4R7JTS RS14GB3D100JKW RD14AB2E2R2JTS	FL-PR00F RD 100 FL-PR00F RD 4.7 FL-PR00F RS 10 FL-PR00F RD 2.2	J 1/4W J 1/4W J 2W J 1/4W		

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参照番号	位 置	新	部品番号	部品名/規格	nation marks 仕 向 備考
R67 ,68 R69 ,70 R103 R106 R108		*	RD14AB2E330JTS RS14GB3D100JKW RS14DB3A561JTE RS14DB3A561JTE RS14DB3A332JTE	FL-PR00F RD 33 J 1/4W FL-PR00F RS 10 J 2W FL-PR00F RS 560 J 1W FL-PR00F RS 560 J 1W FL-PR00F RS 3.3K J 1W	
R109 R124 R126 R127 R128-132			RS14DB3A103JTE RD14AB2E472JTS RS14DB3D122JTE RS14DB3D561JTE RS14DB3D122JTE	FL-PR00F RS 10K J 1W FL-PR00F RD 4.7K J 1/4W FL-PR00F RS 1.2K J 2W FL-PR00F RS 560 J 2W FL-PR00F RS 1.2K J 2W	
R133,134 VR1 -4			RS14DB3D102JTE R12-1616-05	FL-PROOF RS 1.0K J 2W TRIMMING POT.(1K)	
K1 ,2 K3		*	S51-2092-05 S76-0028-05	MAGNETIC RELAY MAGNETIC RELAY	1
D1 -12 D1 -12 D13 ,14 D13 ,14 D15 ,16			HSS104 1SS133 HSS104A 1SS131 HSS104	DIODE DIODE DIODE DIODE DIODE	
D15 ,16 D21 -23 D21 -23 D24 D24			1SS133 HSS104A 1SS131 HZS5.1S(B2) RD5.1JS(B2)	DIODE DIODE DIODE ZENER DIODE ZENER DIODE	
D25 D25 D26 D26 D27 ,28			HSS104A 1SS131 HZS5.1S(B2) RD5.1JS(B2) HZS7.5S(B)	DIODE DIODE ZENER DIODE ZENER DIODE ZENER DIODE ZENER DIODE	
D27 ,28 D29 ,30 D29 ,30 D31 D32 ,33			RD7.5JS(B) HZS15S(B) RD15JS(B) D5FB20*1 HSS104	ZENER DIODE ZENER DIODE ZENER DIODE DIODE DIODE	
D32 ,33 IC1 IC2 Q1 -4 Q5 -8			1SS133 UPC1237HA NJM4565D-D 2SA992(F,E) 2SA1124(R,S)	DIODE IC(POWER AMP) IC(OP AMP X2) TRANSISTOR TRANSISTOR	
Q9 ,10 Q11 -14 Q15 -18 Q19 ,20 Q21 -24	is a second		2SC2632(R,S) 2SC3944(R,S) 2SA1535(R,S) 2SA992(F,E) 2SC1845(F,E)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	
Q31 Q32 ,33 Q34 ,35 Q34 ,35 Q101,102		*	2SA992(F,E) 2SA1110(Q,R) 2SD2012 2SD2061(E,F) 2SJ200LBP4	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR FET	
Q103,104 Q105,106 Q107,108 Q109,110		* * *	2SK1529LBP4 2SJ200LBP4 2SK1529LBP4 2SC4137F19(V,W)	FET FET FET TRANSISTOR	

L:Scandinavia

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Ref. N	lo.	Addre	ess		Parts No.]	Description		Desti-	Re-
参照番	号号	位	置	Parts 新	部品番号	部。	品名/規	格	nation 仕 向	marks
					CONTROL U	NIT (X11-3112-	70)			
D14 -19 D20 D21 -29					B30-1291-05 B30-1290-05 B30-1291-05	LED LED LED	2			
C3 -6 C7 ,8 C9 ,10 C11 ,12 C15 ,16	2				CF92FV1H224J CF92FV1H203J CF92FV1H683J CF92FV1H334J C90-1886-05	MF MF MF MF ELECTRO	0.22UF 0.020UF 0.068UF 0.33UF 4.7UF	J J J 25WV		
C17 ,18 C19 ,20 C21 ,22 C23 ,24 C25 ,26) <u>2</u> 1				CF92FV1H391K CF92FV1H154J CF92FV1H221K CF92FV1H101K CF92FV1H471J	MF MF MF MF MF	390PF 0.15UF 220PF 100PF 470PF	K J K K J		
C27 ,28 C29 -34 C35 -38 C39 -42 C43 ,44	ļ. 3				CF92FV1H102J CE04KW1H010M CE04KW1C220M CF92FV1H473J CE04KW1E101M	MF ELECTRO ELECTRO MF ELECTRO	1000PF 1.0UF 22UF 0.047UF 100UF	J 50WV 16WV J 25WV		
C45 C46 C47,48 C49 C50	}				CK45FF1H103Z CC45FSL1H101J CF92FV1H102J C90-1826-05 CK45FF1H103Z	CERAMIC CERAMIC MF BACKUP CERAMIC	0.010UF 100PF 1000PF 0.047F 0.010UF	Z J J 5.5WV Z		
C51 C52 ,53 C55 C56 C57	3				CE04KW1H0R1M CK45FB1H332K CE04KW1V4R7M CE04KW1H010M CE04KW1A101M	ELECTRO CERAMIC ELECTRO ELECTRO ELECTRO	0.1UF 3300PF 4.7UF 1.0UF 100UF	50WV K 35WV 50WV 10WV		
C58 C64 C67 C68 ,69					CE04KW1V4R7M CE04KW1A101M CK45FF1H103Z CF92FV1H104J	ELECTRO ELECTRO CERAMIC MF	4.7UF 100UF 0.010UF 0.10UF	35WV 10WV Z J		
J1					E11-0208-05	PHONE JACK				
					F10-0575-04	SHIELDING PL	ATE			
L3 ,4 X1					L40-1021-14 L78-0267-05	SMALL FIXED RESONATOR	INDUCTOR(4.194M			
R51 ,52 R53 ,54 R55 ,56 VR1 VR2 ,3					RS14DB3D221JTE RS14DB3D151JTE RS14DB3D221JTE R06-5190-05 R06-2025-05	FL-PROOF RS FL-PROOF RS FL-PROOF RS POTENTIOMETE POTENTIOMETE		J 2W J 2W J 2W		
S1 -6 S7 S8					S40-1064-05 S60-0010-05 S29-2035-05	PUSH SWITCH ROTARY SWITC ROTARY SWITC				
S9					T99-0521-05	ROTARY ENCOD	ER			
D1 D1 D2 -13 D2 -13					HSS104A 1SS131 HSS104 1SS133 HSS104	DIODE DIODE DIODE DIODE DIODE				

L:Scandinavia

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Ref. No.	Address Ne		Description	Desti- Re
参照番号	位 置 新		部品名/規格	nation man 仕 向備
D26 ,27 IC1 IC2 IC3 IC4		1SS133 NJM4565D-D NJM4580D-D NJM4565D-D TC9163N	DIODE IC(OP AMP X2) IC(OP AMP X2) IC(OP AMP X2) IC(OP AMP X2) IC(BILATERAL SWITCH X16)	
IC5 IC6 Q1 ,2 Q1 ,2 Q3 ,4		UPD75104GF-778 PST529D 2SC1740S(Q,R) 2SC3311A(Q,R) DTA124ES	IC(4BIT MICROPROCESSOR) IC(SYSTEM RESET) TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR	
Q3 ,4		UN4112	TRANSISTOR	
A1		W02-1046-05	ELECTRIC CIRCUIT MODULE	
			·	
,				
,				

L:Scandinavia

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SPECIFICATIONS

For U.S.A. and Canada

Continuous rated power output (FTC)

80 watts per channel minimum RMS, both channels driven, at 8 Ω from 20 Hz to 20,000 Hz with no more than 0.04% total harmonic distortion.

Dynamic power
Damping factor220 (50 Hz) Total harmonic distortion
(20 Hz ~ 20,000 Hz, 80 W, 8 Ω)
(1 kHz, 40 W,8 Ω)
Intermodulation distortion0.002% (80 W,8 \Omega)
(70 Hz : 7 kHz = 4 : 1) Frequency response (IHF '78) TUNER/AUX/TAPE1, 2/CD
5 Hz ~ 100 kHz, +0 dB, -3 dB
PHONO 'RIAA' response20 Hz ~ 20 kHz,
+0.3 dB, -0.3 dB Maximum input level
PHONO (MM) 120 mV, 0.03% T.H.D. at 1 kHz
PHONO (MC)120 MV, 0.03% T.H.D. at 1 kHz
Signal to noise ratio
PHONO (MM)
79 dB (IHF '78)
PHONO (MC)68 dB (IHF '66)
74 dB (IHF '78)
TUNER/AUX/TAPE1, 2/CD104 dB (IHF '66)
80 dB (IHF '78)
Input sensitivity/impedance
PHONO (MM)2.5 mV/47 kΩ
PHONO (MC)
ADAPTOR IN200 mV/47 kΩ
Tone control
BASS±10 dB (at 100 Hz)
TREBLE±10 dB (at 10 kHz)
Filter
SUBSONIC filter 18 Hz, -12 dB/oct
Loudness control
(VOLUME at -30 dB level)+6 dB (100 Hz)
+3 dB (10 kHz)
Output level/impedance
TAPE REC200 mV/300 Ω ADAPTOR OUT200 mV/300 Ω
ADAI 1011 001200 1117/300 12
General
Power consumption
For Canada
For Canada SWITCHED3; (Total 200 W, 1.6 A max.)
For U.S. Military
SWITCHED
D: 403 mm (15-7 / 8")
Weight (net)

For U.K. and Europe

ioi o.iv. and Europe
Continuous rated power output (DIN) 1 kHz, at 8 Ω95 W + 95 W
at 4 Ω140 W + 140 W
(IEC/NF) From 63 Hz to 12,500 Hz, 0.7% T.H.D.
at 8 Ω
Dynamic power
175 W (4 Ω)
Damping factor220 (50 Hz)
Total harmonic distortion0.04%
(20 Hz ~ 20,000 Hz, 80 W, 8 Ω)
(70 Hz: 7 kHz = 4:1)
Frequency response (IHF '78) TUNER/AUX/TAPE1, 2/CD
5 Hz ~ 100 kHz, +0 dB, -3 dB
PHONO 'RIAA' response20 Hz ~ 20 kHz,
+0.3 dB, -0.3 dB
Maximum input level
PHONO (MM)120 mV, 0.03% T.H.D. at 1 kHz PHONO (MC)10 mV, 0.03% T.H.D. at 1 kHz
Signal to noise ratio
PHONO (MM)
79 dB (IHF '78)
PHONO (MC)68 dB (IHF '66)
74 dB (IHF '78)
TUNER/AUX/TAPE1, 2/CD 104 dB (IHF '66)
80 dB (IHF '78) PHONO (MM)58 dB (DIN, 50 mW output)
TUNER/AUX/TAPE1, 2/CD
59 dB (DIN, 50 mW output)
Input sensitivity/impedance
PHONO (MM)2.5 mV/47 kΩ
PHONO (MC)
TUNER/AUX/TAPE1, 2/CD200 mV/47 kΩ ADAPTOR IN200 mV/47 kΩ
Tone control
BASS±10 dB (at 100 Hz)
TREBLE±10 dB (at 10 kHz)
Filter
SUBSONIC filter
Loudness control (VOLUME at -30 dB level)+6 dB (100 Hz)
+3 dB (10 Hz)
Output level/impedance
TAPE REC200 mV/300 Ω
ADAPTOR OUT200 mV/300 Ω
General
Power consumption
AC outlets
For U.K.
SWITCHED2; (Total 200 W max.)
For Europe SWITCHED3; (Total 200 W max.)
Dimensions
H: 147 mm
D: 403 mm
Weight (net)

SPECIFICATIONS

For other countries

Continuous rated power output (IHF '66) From 20 Hz to 20,000 Hz 0.04% T.H.D. at 8 Ω	Input sensitivity/i PHONO (MM) PHONO (MC) TUNER/AUX/T ADAPTOR IN Tone control BASS TREBLE
Damping factor	SUBSONIC filte Loudness control (VOLUME at –3
(1 kHz, 40 W, 8 Ω) Intermodulation distortion	Output level/impe TAPE REC ADAPTOR OUT
	General Power consumption
Maximum input level PHONO (MM)	AC outlet For Australia SWITCHED For other count SWITCHED Dimensions
PHONO (MC)	Weight (net)

Input sensitivity/impedance
PHONO (MM)2.5 mV/47 kΩ
PHONO (MC)
TUNER/AUX/TAPE1, 2/CD200 mV/47 kΩ
ADAPTOR IN
Tone control
BASS±10 dB (at 100 Hz)
TREBLE±10 dB (at 10 kHz)
Filter
SUBSONIC filter 18 Hz, -12 dB/oct
Loudness control
(VOLUME at -30 dB level)+6 dB (100 Hz)
+3 dB (10 kHz)
Output level/impedance
TAPE REC200 mV/300 Ω
ADAPTOR OUT200 mV/300 Ω
General
Power consumption
AC outlet
For Australia
SWITCHED1; (200 W max.)
For other countries
SWITCHED3; (Total 200 W max.)
Dimensions W: 440 mm
H: 147 mm

D: 403 mm

......12 kg

KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be change without notice.

KENWOOD CORPORATION

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Kenwood strebt ständige Verbesserungen in der Entwicklung an. Daher bleiben Änderungen der technischen Daten jederzeit vorbehalten.